

**STATEMENT OF WORK**  
**IRRIGATION SYSTEM, SPRINKLER (442)**  
**Wyoming**

**These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.**

## **DESIGN**

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### **Deliverables:**

1. Design documentation that will demonstrate that the criteria in NRCS practice standard have been met and are compatible with other planned and applied practices.
  - A. Practice purpose(s) as identified in the conservation plan
  - B. List of required permits to be obtained by the client
  - C. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06)
  - D. List of facilitating/component practices
  - E. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
    - i. System Capacity
    - ii. Depth of Application, Rate, Frequency, Pressure and Uniformity
    - iii. Hydraulics
      - a. Plan view of system (including area served)
      - b. Mainline sizing
      - c. Lateral line sizing and spacing
      - d. Sprinkler nozzle sizing and spacing
      - e. Appurtenance selection and sizing
    - iv. Structure Design
    - v. Area to be served
    - vi. Other
      - a. Water surface elevation or well elevation and depth to water
      - b. Elevations of areas to be served and critical elevations
      - c. Length of pipe required
2. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits.
  - A. Plan view of system (including area served)
  - B. Size, type, and class of pipe required
  - C. Appurtenance size, type and location
  - D. Structure details
  - E. Table of quantities
  - F. Location map
3. Operation and Maintenance Plan
4. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03 (a) (3)).
5. Design modifications during installation as required.

## **INSTALLATION**

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### **Deliverables**

1. Pre Installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
  - i. Location and alignment stakes
  - ii. Grade stakes with offset reference stakes.
4. Installation inspection (according to inspection plan as appropriate).
  - A. Actual materials used (Part 512, Subpart D Quality Assurance Activities, 512.33)
  - B. Inspection records
5. Facilitate and implement required design modifications with client and original designer

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6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meets design and permit requirements.

**CHECK OUT**

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**Deliverables**

1. As-Built documentation.
  - a. Extent of practice units applied
  - b. Drawings
  - c. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03 (c) (1)).
3. Progress reporting.

**REFERENCES**

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- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Irrigation System-Sprinkler, 442
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook